



PTO/SB/08a (06-03)  
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<b>Substitute for form 1449A/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)		<b>Complete if Known</b>	
		Application Number	10/606,618
		Filing Date	June 26, 2003
		First Named Inventor	Judd et al.
		Group Art Unit	1645
Sheet 1 of 6	Examiner Name		
		Attorney Docket Number	UM/SBC147BUSA

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
SD	AA	US-5,912,336-B1	06-15-1999	SPARLING	536/23.7
	AB	US-5,698,438-B1	12-16-1997	STOJILJKOVIC	438/252.3
	AC	US-5,834,591-B1	11-10-1998	NORMARK	530/350
	AD	US-5,708,155-B1	01-13-1998	POTTER	536/23.4
	AE	US-6,197,301-B1	03-06-2001	FLAVELL	424/190.1
SD	AF	US-6,610,306-B1	08-26-2003	JUDD	424/250.1

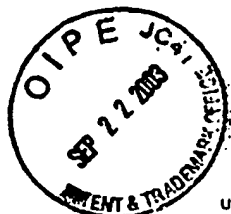
FOREIGN PATENT DOCUMENTS						
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		Country Code <sup>2</sup> - Number <sup>3</sup> -Kind Code <sup>5</sup> (if known)				
SD	AG	WO-98/21333-A2	05-22-1998	PULST		
SD	AH	WO-92/03467-A1	03-05-1992	SPARLING		
SD	AI	EP-474,313-A2	03-11-1992	RODRIGUEZ		

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NONPATENT LITERATURE DOCUMENTS				
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SD	AJ	FLACK et al., "The Sequencing of the 80-kDA D15 Protective Surface Antigen of <i>Haemophilus influenzae</i> ", Gene, 156:97-99 (April 4, 1995)		
	AK	THOMAS et al., "Expression in <i>Escherichia coli</i> of a High-Molecular-Weight Protective Surface Antigen Found in Nontypeable and Type B <i>Haemophilus influenzae</i> ", Infection and Immunity, 58(6):1909-1913 (June, 1990)		
	AL	RUFFOLO et al., "Cloning, Sequencing, Expression, and Protective Capacity of the oma87 Gene Encoding the <i>Pasteurella multocida</i> 87-Kilodalton Outer Membrane Antigen", Infection and Immunity, 64(8):3161-3167 (August, 1996)		
	AM	LOOSMORE et al., "Outer Membrane Protein D15 is Conserved Among <i>Haemophilus influenzae</i> Species and May Represent a Universal Protective Antigen Against Invasive Disease", Infection and Immunity, 65(9):3701-3707 (September, 1997)		
	AN	ELKINS et al., "Species-Specific Uptake of DNA by Gonococci is Mediated by a 10-Base-Pair Sequence", J. Bacteriology, 173(12):3911-3913 (June, 1991)		
	AO	VON HEIJNE et al., "A New Method for Predicting Signal Sequence Cleavage Sites", Nucleic Acids Research, 14 (11):4683-4690 (1986)		
	AP	STRUYVE et al., "Carboxy-Terminal Phenylalanine is Essential for the Correct Assembly of a Bacterial Outer Membrane Protein", J. Mol. Biol., 211:8:141-148 (March 5, 1991)		
	AQ	ALTSCHUL et al., "Basic Local Alignment Search Tool", J. Mol. Biol., 215:403-410 (October 5, 1990)		
	AR	TOMB et al., "The Complete Genome Sequence of the Gastric Pathogen <i>Helicobacter pylori</i> ", Nature, 388:539-547 (August, 1997)		
SD	AS	FRASER et al., "Genomic Sequence of a Lyme Disease Spirochete, <i>Borrelia burgdorferi</i> ", Nature, 390:580-586 (December, 1997)		

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SD	AT	KOSKI et al., "Isolation, Cloning, and Primary Structure of a Cationic 16-kDa Outer Membrane Protein of <i>Salmonella typhimurium</i> ", J. Biol. Chem., 264(32):18973-18980 (November, 1989)	
	AU	FLEISCHMANN et al., "Whole-Genome Random Sequencing and Assembly of <i>Haemophilus influenzae</i> Rd", Science, 269:496-512 (July, 1995)	
	AV	ROSSAU et al., "Ribosomal Ribonucleic Acid Cistron Similarities and Deoxyribonucleic Acid Homologies of <i>Neisseria</i> , <i>Kingella</i> , <i>Eikenella</i> , <i>Simonsiella</i> , <i>Alysiella</i> , and Centers for Disease Control Groups EF-4 and M-5 in the Amended Family <i>Neiseriaceae</i> ", International Journal of Systematic Bacteriology, 39:185-198 (April, 1989)	
	AW	SCHNELL et al., "Isolation of Components of the Chloroplast Protein Import Machinery", Science, 266:1007-1011 (November, 1994)	
	AX	KESSLER et al., "Identification of Two GTP-Binding Proteins in the Chloroplast Protein Import Machinery", Science, 266:1035-1039 (November, 1994)	
	AY	NEWHALL et al., "Cross-Linking Analysis of the Outer Membrane Proteins of <i>Neisseria gonorrhoeae</i> ", Infection and Immunity, 28(3):785-791 (June, 1980)	
	AZ	SWANSON et al., "Studies on <i>Gonococcus</i> Infection, XII. Colony Color and Opacity Variants of <i>Gonococci</i> ", Infection and Immunity, 19(1):320-331 (January, 1978)	
	BA	LAEMMLI et al., "Cleavage of Structural Proteins During the Assembly of the Head of Bacteriophage T4", Nature, 227:680-685 (August, 1970)	
SD	BB	JUDD et al., "Purification of Outer Membrane Proteins of the Gram-Negative Bacterium <i>Neisseria gonorrhoeae</i> ", Analytical Biochemistry, 173:307-316 (September, 1988)	

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SD	BC	MOORE, "Preparation and Analysis of DNA", in <i>Current Protocols in Molecular Biology</i> , F.M. Ausubel et al., (eds), New York, John Wiley and Sons, Supplement 25, 2.1.1 - 2.1.3 (1995)	
	BD	SOUTHERN, "Detection of Specific Sequences Among DNA Fragments Separated by Gel Electrophoresis", <i>J. Mol. Biol.</i> , 98:503-517 (November 5, 1975)	
	BE	MARCHION et al., "Generation of Antiserum to Specific Epitopes", <i>Molecular Biotechnology</i> , 6:231-240 (December, 1996)	
	BF	MANNING et al., "Omp85 Proteins of <i>Neisseria gonorrhoeae</i> and <i>Neisseria meningitidis</i> are Similar to <i>Haemophilus influenzae</i> D-15-Ag and <i>Pasteurella multocida</i> Oma87", <i>Microbial Pathogenesis</i> , 25:11-21 (July, 1998)	
	BG	RESCHKE et al., "Characterization of an 96 kDa Outer Membrane Protein of <i>Neisseria gonorrhoeae</i> Having Homology with the D15 Surface Protective Antigen of <i>Haemophilus influenzae</i> ", in <i>Pathogenic Neisseria</i> , W. Zollinger et al. (eds), p. 44, NIH, Bethesda, MD (1996)	
	BH	COHEN et al., "Mucosal Infection with <i>Neisseria gonorrhoeae</i> , Bacterial Adaptation and Mucosal Defenses", <i>J. Clin. Invest.</i> , 89:1699-1705 (June, 1992)	
	BI	KANEKO et al., "Sequence Analysis of the Genome of the Unicellular <i>Cyanobacterium synechocystis</i> sp. Strain PCC 6803. II. Sequence Determination of the Entire Genome and Assignment of Potential Protein-Coding Regions", <i>DNA Research</i> , 3:109-136 (June 30, 1996)	
	BJ	MANNING et al., " <i>Neisseria gonorrhoeae</i> Outer Membrane Protein (omp85) Gene, Complete cds", EMPRO Database Accession Number U81959 (February 22, 1997)	
SD	BK	MANNING et al., " <i>Neisseria meningitidis</i> Outer Membrane Protein (omp85) Gene, Complete cds" EMPRO Database Accession Number AF021245 (October 3, 1997)	

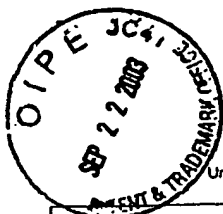
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SD	BL	UHLEN et al., "Gene Fusion Vectors Based on the Gene for <i>Staphylococcal</i> Protein A", Gene, 23(3):369-378 (September, 1983) (Abstract)	
	BM	HOUGHTON et al., "Relative Importance of Position and Individual Amino Acid Residues in Peptide Antigen-Antibody Interactions: Implications in the Mechanism of Antigenic Drift and Antigenic Shift", in <i>Vaccines</i> , pp. 21-25, F. Brown et al., (eds), Cold Spring Harbor Laboratory (1986)	
	BN	LEWIS et al., "Identification of an Iron-Regulated Outer Membrane Protein of <i>Neisseria meningitidis</i> Involved in the Utilization of Hemoglobin Complexed to Haptoglobin", J. Bacteriology, 177(5):1299-1306 (March, 1995)	
	BO	LEWIS et al., "Molecular Characterization of hpuAB, the Haemoglobin-Haptoglobin-Utilization Operon of <i>Neisseria meningitidis</i> ", Molecular Microbiology, 23(4):737-749 (February, 1997)	
	BP	BLASIUS et al., "Two Distinct Outer Membrane Serotype Subcomplexes of <i>Neisseria meningitidis</i> Serogroup A", Infection and Immunity, 58(6):2008-2010 (June, 1990)	
	BQ	FERREIROS et al., "Analysis of the Molecular Mass Heterogeneity of the Transferring Receptor of <i>Neisseria meningitidis</i> and Commensal <i>Neisseria</i> ", FEMS Microbiology Letters, 83:247-254 (1991)	
	BR	DYER et al., "Isolation by Streptonigrin Enrichment and Characterization of a Transferrin-Specific Iron Uptake Mutant of <i>Neisseria meningitidis</i> ", Microbial Pathogenesis, 3:351-363 (November, 1987)	
	BS	ANDERSON et al., "Gonococcal Transferrin-Binding Protein 2 Facilitates but is not Essential for Transferrin Utilization", J. Bacteriology, 176(11):3162-3170 (June, 1994)	
SD	BT	LEGRAIN et al., "Cloning and Characterization of <i>Neisseria meningitidis</i> Genes Encoding the Transferrin-binding Proteins Tbp1 and Tbp2", Gene, 130:73-80 (August 16, 1993)	

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